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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/017,734		12/18/2001	Baowei Kang .	B784.312-1	8852	
164	7590	03/04/2004		EXAM	EXAMINER	
	& LANG	E, P.A. NGE BUILDING	NGUYEN, KHIEM D			
312 SOUTH THIRD STREET				ART UNIT	ART UNIT PAPER NUMBER	
MINNEAPOLIS, MN 55415-1002				2823		

DATE MAILED: 03/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Advisory Action	10/017,734	KANG ET AL.					
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	Khiem D Nguyen	2823					
The MAILING DATE of this communication appe	ears on the cover sheet with the c	correspondence address					
HE REPLY FILED 29 December 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. herefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a inal rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in ondition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued xamination (RCE) in compliance with 37 CFR 1.114.							
PERIOD FOR REPLY [check either a) or b)]							
a) The period for reply expires 4 months from the mailing date of b) The period for reply expires on: (1) the mailing date of this Advevent, however, will the statutory period for reply expire later the ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date of the may be obtained under 37 CFR 1.136(a).	visory Action, or (2) the date set forth in the lan SIX MONTHS from the mailing date on FILED WITHIN TWO MONTHS OF THI	f the final rejection. E FINAL REJECTION. See MPEP					
Extensions of time may be obtained withdown of the first of extensions of time may be obtained with a first of the first of extensions of the period of extensions of the first of the shortened by above, if checked. Any reply received by the Office later than three majorarned patent term adjustment. See 37 CFR 1.704(b).	sion and the corresponding amount of the d statutory period for reply originally set in	fee. The appropriate extension fee under the final Office action; or (2) as set forth in					
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.							
 The proposed amendment(s) will not be entered be 	ecause:						
(a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);							
(b) ☐ they raise the issue of new matter (see Note below);							
(c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or							
(d) they present additional claims without canceling a corresponding number of finally rejected claims.							
3. Applicant's reply has overcome the following rejection	ction(s):						
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).		separate, timely filed amendment					
5.⊠ The a)□ affidavit, b)□ exhibit, or c)⊠ request for application in condition for allowance because: Se		sidered but does NOT place the					
6. The affidavit or exhibit will NOT be considered be raised by the Examiner in the final rejection.		to issues which were newly					
 7. For purposes of Appeal, the proposed amendmen explanation of how the new or amended claims w 							
The status of the claim(s) is (or will be) as follows	· ·						
Claim(s) allowed: <u>none</u> .							
Claim(s) objected to: <u>none</u> .							
Claim(s) rejected: <u>2-6 and 8-14</u> .							
Claim(s) withdrawn from consideration: none.							
· *	The proposed drawing correction filed on is a) □ approved or b) □ disapproved by the Examiner.						
 Note the attached Information Disclosure Stateme 							
 0.□ Other:	W. DAVID COLEMAN 'BIMARY EXAMINER	V. DAVID COLEMAN					



Application No.

Continuation of 5. does NOT place the application in condition for allowance because: In response to Applicants' amendment that Francis et al. do not teach forming a diffused n+ layer in the first step of fabrication, examiner respectfully disagree. Applicants are directed to (col. 4, lines 2 to col. 6, line 6 and FIG. 4) wherein Francis et al. disclose a method for fabricating IGBT, comprising: PROCEDURE 1: form a uniformly-doped monocrystalline n- starting wafer (FIG. 4: 20) fabricating a nonuniformly doped n-type substrate which contains an n- layer on the frontside of the wafer and a diffused n+ layer (FIG. 4: 30) on the backside, (col. 5, lines 3-40 and FIGS. 1-4); and PROCEDURE II: fabricating the frontside structure of either an IGBT, MCT, or GTO (FIG. 4) on the frontside of the substrate wherein the n- layer is exposed (col. 5, line 47 to col. 6, line 6). Although, Francis et al. do not explicitly disclose forming the diffused n+ layer prior to the fabrication of the frontside structure of the IGBT. It would have been obvious to one of ordinary skill in the art to form the frontside structure of the IGBT after forming the diffused n+ layer because selection of any order of performing process steps is prima facie obvious in the absence of new or unexpected results. In re Burhans, 154 F.2d 690, 69 USPQ 330 (CCPA 1946). Since the Applicants' claimed invention absence of new or unexpected results, examiner holds the rejection proper.